

Model			
Designation	NLE8.8CNT	208-230V/60Hz 1~	Sales code: 105H6078

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	8,76cm³ / 0,53cu.in
Oil quantity	268cm³ / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	11,1kg / 24,5lbs		
Motor protection	1# internal		
Winding resistance main	6,53Ω (at 25°C)		
Winding resistance aux	7,45Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with NLE8.8CNT

	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	208-230V/60Hz
Number of phases	1
Voltage range	187-253V
Approvals	UL, CB
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE8.8CNT

	Conf. 1
Refrigerant	R290
Application	LBP+MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with NLE8.8CNT

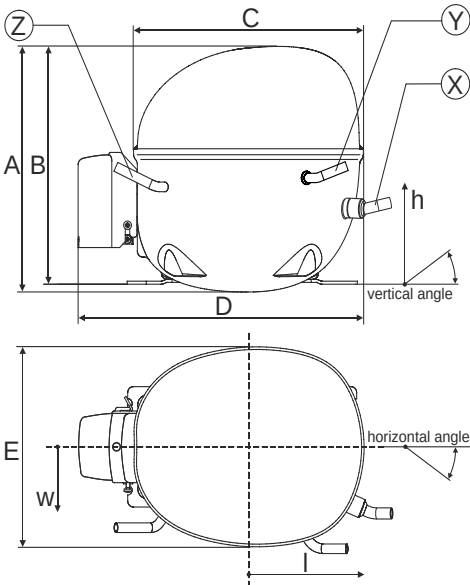
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	100μF
LRA (locked rotor amps / 4s/ U(N))	15,5A
RLA (rated load amps / 1s/ U(N))	3A
Cut in current (U(N))	15,5A

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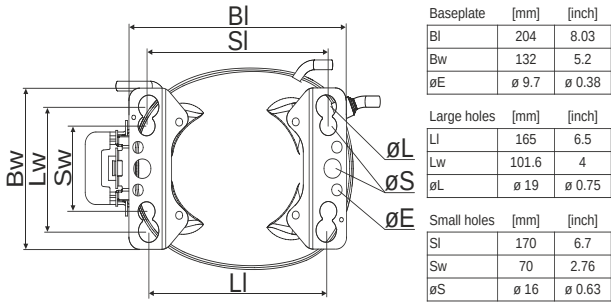
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

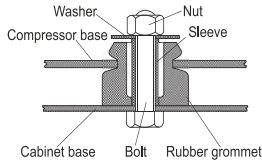
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/69/57	94/102/81	-109/94/72
	[in] 5,2/2,7/2,2	[in] 3,7/4/3,2	[in] -4,3/3,7/2,8
Straight tube l. [mm]	12	12	12
	[in] 0,5	[in] 0,5	[in] 0,5



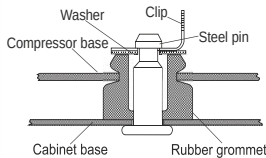
Compressor fixation



Bolt joint



Snap-on



Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

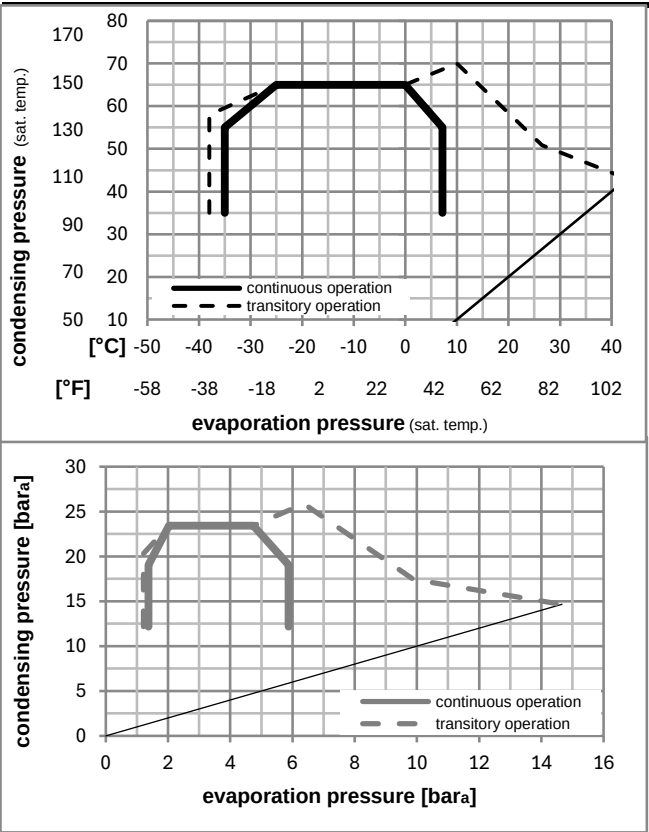
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	208-230V/60Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	187-253V				
Starting torque	HST				
Approvals	UL CB				

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components (incl. and pre. assembl.)		
a2	relay	117U7022
c	start capacitor (100µF, 82kOhm)	117U5381
b	plastic cover	103N2011
d	cord relief	103N1010

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Optimization + standard conditions			R290, 230V/60Hz, CSIR, fan 3m/s, UL, CB		

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity					COP		EER			P1	I	ṁ		
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	510,3	1743	439,1	1,56	5,32	1,34	327,7	2,12	5,17	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	380,9	1301	327,8	1,20	4,11	1,04	316,3	2,08	4,74	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	299,5	1023	257,7	1,22	4,18	1,05	244,6	1,91	3,42	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	914,9	3125	787,4	2,05	6,99	1,76	447,0	2,52	10,44	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	727,7	2485	626,3	1,71	5,84	1,47	425,8	2,44	9,21	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	806,8	2755	694,3	2,05	7,01	1,77	393,1	2,33	9,91	EN12900 MBP
[°F]	14	113	68	113										